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Global Nuclear Grade Actuator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Grade Actuator market size is expected to reach $ 369 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global Nuclear Grade Actuator production reached approximately 28.0 k units, and the average price was US$8640 per unit.Nuclear grade actuators are critical actuating devices used in nuclear power plants and nuclear-related facilities to drive valves, dampers, control rod drive mechanisms, or other mechanical components, thereby performing functions such as opening, closing, regulation, and safety control. These actuators must operate stably over the long term in harsh environments?characterized by high radiation, extreme temperatures, pressure fluctuations, and intense vibration?while meeting stringent nuclear safety standards. Their designs typically incorporate high reliability, redundant safety mechanisms, radiation-resistant materials, remote or automatic control capabilities, and fail-safe functionality. Widely used in primary and secondary circuits, containment systems, nuclear fuel cycle facilities, and experimental nuclear installations, these actuators are core components essential for the safe operation and emergency response capabilities of nuclear facilities.The upstream segment of the nuclear grade actuator industry chain primarily comprises high-strength, radiation-resistant materials (e.g., stainless steel and nickel-based alloys from suppliers such as Sandvik, ATI, and Special Metals), sealing and lubrication materials (Parker Hannifin, Trelleborg), precision bearings and transmission components (SKF, Schaeffler), and motors and drive systems (Siemens, ABB). The downstream segment covers applications in nuclear power plant reactor control, valve actuation, and safety systems, with key customers including nuclear power operators and engineering contractors such as EDF and CNNC.

The global market for nuclear-grade actuators is characterized by a tripartite landscape

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comprising North America, Europe, and the Asia-Pacific region. The North American market?driven by mature operations and maintenance (O&M) systems, defense-related nuclear facilities, and advanced reactor R&D?maintains steady demand for highly reliable, long-life, and intelligent actuators. The European market places a strong emphasis on nuclear safety standards, equipment certification, and life-extension retrofitting for existing plants, resulting in significant demand for high-precision, high-safety-rated actuators. The Asia-Pacific market is experiencing rapid growth fueled by nuclear power expansion in China, India, and other emerging economies, alongside clear trends toward domestic substitution and technological upgrading. Current market demand stems primarily from new nuclear power plant construction, maintenance and replacement for in-service units, and safety upgrades for existing nuclear facilities. Future trends include the development of intelligent electric actuators, remote diagnostics and predictive maintenance, upgrades to radiation-resistant materials, digital integration of nuclear power systems, and the harmonization of high-safety standards. Key market constraints include lengthy nuclear-grade certification processes, high technical barriers, strict supply chain entry requirements, long project cycles, and relatively limited overall market volume. The industry's average gross margin typically ranges from 35% to 55%; high-end intelligent actuators and customized nuclear-grade products command higher margins, whereas standardized replacement parts and lower-complexity actuators yield relatively lower margins.

This report studies the global Nuclear Grade Actuator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Grade Actuator and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Nuclear Grade Actuator that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Nuclear Grade Actuator total production and demand, 2021-2032, (K Units)
Global Nuclear Grade Actuator total production value, 2021-2032, (USD Million)
Global Nuclear Grade Actuator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Nuclear Grade Actuator consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Nuclear Grade Actuator domestic production, consumption, key domestic manufacturers and share

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Global Nuclear Grade Actuator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Nuclear Grade Actuator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Nuclear Grade Actuator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Nuclear Grade Actuator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Flowserve Corporation, Baker Hughes Company, Parker Hannifin Corporation, Framatome, Mitsubishi Heavy Industries, Hitachi, Toshiba Energy Systems & Solutions, Yangzhou Hengchun, Chongqing Chuanyi, Trillium Flow Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nuclear Grade Actuator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nuclear Grade Actuator Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Actuator Market, Segmentation by Type:

Electro-Hydraulic Actuator

Hydraulic Actuator

Servo Hydraulic Actuator

Global Nuclear Grade Actuator Market, Segmentation by Safety Class:

Safety Class 1

Safety Class 2

Safety Class 3

Non-safety Related

Global Nuclear Grade Actuator Market, Segmentation by Application:

Nuclear Island Applications

Balance of Plant (BOP)

Nuclear Fuel Cycle Facilities

Research Reactors

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Companies Profiled:

Flowserve Corporation

Baker Hughes Company

Parker Hannifin Corporation

Framatome

Mitsubishi Heavy Industries

Hitachi

Toshiba Energy Systems & Solutions

Yangzhou Hengchun

Chongqing Chuanyi

Trillium Flow Technologies

Bernard Controls

Rotork

CNNC

SMC Corporation

KSB

Key Questions Answered:
1. How big is the global Nuclear Grade Actuator market?
2. What is the demand of the global Nuclear Grade Actuator market?
3. What is the year over year growth of the global Nuclear Grade Actuator market?
4. What is the production and production value of the global Nuclear Grade Actuator market?

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5. Who are the key producers in the global Nuclear Grade Actuator market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Nuclear Grade Actuator Introduction
1.2 World Nuclear Grade Actuator Supply & Forecast
  1.2.1 World Nuclear Grade Actuator Production Value (2021 & 2025 & 2032)
  1.2.2 World Nuclear Grade Actuator Production (2021-2032)
  1.2.3 World Nuclear Grade Actuator Pricing Trends (2021-2032)
1.3 World Nuclear Grade Actuator Production by Region (Based on Production Site)
  1.3.1 World Nuclear Grade Actuator Production Value by Region (2021-2032)
  1.3.2 World Nuclear Grade Actuator Production by Region (2021-2032)
  1.3.3 World Nuclear Grade Actuator Average Price by Region (2021-2032)
  1.3.4 North America Nuclear Grade Actuator Production (2021-2032)
  1.3.5 Europe Nuclear Grade Actuator Production (2021-2032)
  1.3.6 China Nuclear Grade Actuator Production (2021-2032)
  1.3.7 Japan Nuclear Grade Actuator Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Nuclear Grade Actuator Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Nuclear Grade Actuator Major Market Trends

2 DEMAND SUMMARY

2.1 World Nuclear Grade Actuator Demand (2021-2032)
2.2 World Nuclear Grade Actuator Consumption by Region
  2.2.1 World Nuclear Grade Actuator Consumption by Region (2021-2026)
  2.2.2 World Nuclear Grade Actuator Consumption Forecast by Region (2027-2032)
2.3 United States Nuclear Grade Actuator Consumption (2021-2032)
2.4 China Nuclear Grade Actuator Consumption (2021-2032)
2.5 Europe Nuclear Grade Actuator Consumption (2021-2032)
2.6 Japan Nuclear Grade Actuator Consumption (2021-2032)
2.7 South Korea Nuclear Grade Actuator Consumption (2021-2032)
2.8 ASEAN Nuclear Grade Actuator Consumption (2021-2032)
2.9 India Nuclear Grade Actuator Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Nuclear Grade Actuator Production Value by Manufacturer (2021-2026)

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3.2 World Nuclear Grade Actuator Production by Manufacturer (2021-2026)
3.3 World Nuclear Grade Actuator Average Price by Manufacturer (2021-2026)
3.4 Nuclear Grade Actuator Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global Nuclear Grade Actuator Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for Nuclear Grade Actuator in 2025
3.5.3 Global Concentration Ratios (CR8) for Nuclear Grade Actuator in 2025
3.6 Nuclear Grade Actuator Market: Overall Company Footprint Analysis
3.6.1 Nuclear Grade Actuator Market: Region Footprint
3.6.2 Nuclear Grade Actuator Market: Company Product Type Footprint
3.6.3 Nuclear Grade Actuator Market: Company Product Application Footprint
3.7 Competitive Environment
3.7.1 Historical Structure of the Industry
3.7.2 Barriers of Market Entry
3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Nuclear Grade Actuator Production Value Comparison
4.1.1 United States VS China: Nuclear Grade Actuator Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: Nuclear Grade Actuator Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Nuclear Grade Actuator Production Comparison
4.2.1 United States VS China: Nuclear Grade Actuator Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Nuclear Grade Actuator Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Nuclear Grade Actuator Consumption Comparison
4.3.1 United States VS China: Nuclear Grade Actuator Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Nuclear Grade Actuator Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Nuclear Grade Actuator Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (States, Country)

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4.4.2 United States Based Manufacturers Nuclear Grade Actuator Production Value (2021-2026)
4.4.3 United States Based Manufacturers Nuclear Grade Actuator Production (2021-2026)
4.5 China Based Nuclear Grade Actuator Manufacturers and Market Share
4.5.1 China Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Nuclear Grade Actuator Production Value (2021-2026)
4.5.3 China Based Manufacturers Nuclear Grade Actuator Production (2021-2026)
4.6 Rest of World Based Nuclear Grade Actuator Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Nuclear Grade Actuator Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Nuclear Grade Actuator Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Nuclear Grade Actuator Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Electro-Hydraulic Actuator
5.2.2 Hydraulic Actuator
5.2.3 Servo Hydraulic Actuator
5.3 Market Segment by Type
5.3.1 World Nuclear Grade Actuator Production by Type (2021-2032)
5.3.2 World Nuclear Grade Actuator Production Value by Type (2021-2032)
5.3.3 World Nuclear Grade Actuator Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SAFETY CLASS

6.1 World Nuclear Grade Actuator Market Size Overview by Safety Class: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Safety Class
6.2.1 Safety Class
6.2.2 Safety Class

+357 96 030922
info@marketpublishers.com

6.2.3 Safety Class
6.2.4 Non-safety Related
6.3 Market Segment by Safety Class
6.3.1 World Nuclear Grade Actuator Production by Safety Class (2021-2032)
6.3.2 World Nuclear Grade Actuator Production Value by Safety Class (2021-2032)
6.3.3 World Nuclear Grade Actuator Average Price by Safety Class (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Nuclear Grade Actuator Market Size Overview by Application: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Application
7.2.1 Nuclear Island Applications
7.2.2 Balance of Plant (BOP)
7.2.3 Nuclear Fuel Cycle Facilities
7.2.4 Research Reactors
7.3 Market Segment by Application
7.3.1 World Nuclear Grade Actuator Production by Application (2021-2032)
7.3.2 World Nuclear Grade Actuator Production Value by Application (2021-2032)
7.3.3 World Nuclear Grade Actuator Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Flowserve Corporation
8.1.1 Flowserve Corporation Details
8.1.2 Flowserve Corporation Major Business
8.1.3 Flowserve Corporation Nuclear Grade Actuator Product and Services
8.1.4 Flowserve Corporation Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.1.5 Flowserve Corporation Recent Developments/Updates
8.1.6 Flowserve Corporation Competitive Strengths & Weaknesses
8.2 Baker Hughes Company
8.2.1 Baker Hughes Company Details
8.2.2 Baker Hughes Company Major Business
8.2.3 Baker Hughes Company Nuclear Grade Actuator Product and Services
8.2.4 Baker Hughes Company Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.2.5 Baker Hughes Company Recent Developments/Updates
8.2.6 Baker Hughes Company Competitive Strengths & Weaknesses

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info@marketpublishers.com

8.3 Parker Hannifin Corporation
8.3.1 Parker Hannifin Corporation Details
8.3.2 Parker Hannifin Corporation Major Business
8.3.3 Parker Hannifin Corporation Nuclear Grade Actuator Product and Services
8.3.4 Parker Hannifin Corporation Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.3.5 Parker Hannifin Corporation Recent Developments/Updates
8.3.6 Parker Hannifin Corporation Competitive Strengths & Weaknesses
8.4 Framatome
8.4.1 Framatome Details
8.4.2 Framatome Major Business
8.4.3 Framatome Nuclear Grade Actuator Product and Services
8.4.4 Framatome Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.4.5 Framatome Recent Developments/Updates
8.4.6 Framatome Competitive Strengths & Weaknesses
8.5 Mitsubishi Heavy Industries
8.5.1 Mitsubishi Heavy Industries Details
8.5.2 Mitsubishi Heavy Industries Major Business
8.5.3 Mitsubishi Heavy Industries Nuclear Grade Actuator Product and Services
8.5.4 Mitsubishi Heavy Industries Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.5.5 Mitsubishi Heavy Industries Recent Developments/Updates
8.5.6 Mitsubishi Heavy Industries Competitive Strengths & Weaknesses
8.6 Hitachi
8.6.1 Hitachi Details
8.6.2 Hitachi Major Business
8.6.3 Hitachi Nuclear Grade Actuator Product and Services
8.6.4 Hitachi Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.6.5 Hitachi Recent Developments/Updates
8.6.6 Hitachi Competitive Strengths & Weaknesses
8.7 Toshiba Energy Systems & Solutions
8.7.1 Toshiba Energy Systems & Solutions Details
8.7.2 Toshiba Energy Systems & Solutions Major Business
8.7.3 Toshiba Energy Systems & Solutions Nuclear Grade Actuator Product and Services
8.7.4 Toshiba Energy Systems & Solutions Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

8.7.5 Toshiba Energy Systems & Solutions Recent Developments/Updates
8.7.6 Toshiba Energy Systems & Solutions Competitive Strengths & Weaknesses
8.8 Yangzhou Hengchun
8.8.1 Yangzhou Hengchun Details
8.8.2 Yangzhou Hengchun Major Business
8.8.3 Yangzhou Hengchun Nuclear Grade Actuator Product and Services
8.8.4 Yangzhou Hengchun Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.8.5 Yangzhou Hengchun Recent Developments/Updates
8.8.6 Yangzhou Hengchun Competitive Strengths & Weaknesses
8.9 Chongqing Chuanyi
8.9.1 Chongqing Chuanyi Details
8.9.2 Chongqing Chuanyi Major Business
8.9.3 Chongqing Chuanyi Nuclear Grade Actuator Product and Services
8.9.4 Chongqing Chuanyi Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.9.5 Chongqing Chuanyi Recent Developments/Updates
8.9.6 Chongqing Chuanyi Competitive Strengths & Weaknesses
8.10 Trillium Flow Technologies
8.10.1 Trillium Flow Technologies Details
8.10.2 Trillium Flow Technologies Major Business
8.10.3 Trillium Flow Technologies Nuclear Grade Actuator Product and Services
8.10.4 Trillium Flow Technologies Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.10.5 Trillium Flow Technologies Recent Developments/Updates
8.10.6 Trillium Flow Technologies Competitive Strengths & Weaknesses
8.11 Bernard Controls
8.11.1 Bernard Controls Details
8.11.2 Bernard Controls Major Business
8.11.3 Bernard Controls Nuclear Grade Actuator Product and Services
8.11.4 Bernard Controls Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.11.5 Bernard Controls Recent Developments/Updates
8.11.6 Bernard Controls Competitive Strengths & Weaknesses
8.12 Rotork
8.12.1 Rotork Details
8.12.2 Rotork Major Business
8.12.3 Rotork Nuclear Grade Actuator Product and Services
8.12.4 Rotork Nuclear Grade Actuator Production, Price, Value, Gross Margin and

+357 96 030922
info@marketpublishers.com

Market Share (2021-2026)
8.12.5 Rotork Recent Developments/Updates
8.12.6 Rotork Competitive Strengths & Weaknesses
8.13 CNNC
8.13.1 CNNC Details
8.13.2 CNNC Major Business
8.13.3 CNNC Nuclear Grade Actuator Product and Services
8.13.4 CNNC Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.13.5 CNNC Recent Developments/Updates
8.13.6 CNNC Competitive Strengths & Weaknesses
8.14 SMC Corporation
8.14.1 SMC Corporation Details
8.14.2 SMC Corporation Major Business
8.14.3 SMC Corporation Nuclear Grade Actuator Product and Services
8.14.4 SMC Corporation Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.14.5 SMC Corporation Recent Developments/Updates
8.14.6 SMC Corporation Competitive Strengths & Weaknesses
8.15 KSB
8.15.1 KSB Details
8.15.2 KSB Major Business
8.15.3 KSB Nuclear Grade Actuator Product and Services
8.15.4 KSB Nuclear Grade Actuator Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.15.5 KSB Recent Developments/Updates
8.15.6 KSB Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Nuclear Grade Actuator Industry Chain
9.2 Nuclear Grade Actuator Upstream Analysis
9.2.1 Nuclear Grade Actuator Core Raw Materials
9.2.2 Main Manufacturers of Nuclear Grade Actuator Core Raw Materials
9.3 Midstream Analysis
9.4 Downstream Analysis
9.5 Nuclear Grade Actuator Production Mode
9.6 Nuclear Grade Actuator Procurement Model
9.7 Nuclear Grade Actuator Industry Sales Model and Sales Channels

+357 96 030922
info@marketpublishers.com

9.7.1 Nuclear Grade Actuator Sales Model
9.7.2 Nuclear Grade Actuator Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology
11.2 Research Process and Data Source
11.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Nuclear Grade Actuator Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Nuclear Grade Actuator Production Value by Region (2021-2026) & (USD Million)
Table 3. World Nuclear Grade Actuator Production Value by Region (2027-2032) & (USD Million)
Table 4. World Nuclear Grade Actuator Production Value Market Share by Region (2021-2026)
Table 5. World Nuclear Grade Actuator Production Value Market Share by Region (2027-2032)
Table 6. World Nuclear Grade Actuator Production by Region (2021-2026) & (K Units)
Table 7. World Nuclear Grade Actuator Production by Region (2027-2032) & (K Units)
Table 8. World Nuclear Grade Actuator Production Market Share by Region (2021-2026)
Table 9. World Nuclear Grade Actuator Production Market Share by Region (2027-2032)
Table 10. World Nuclear Grade Actuator Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Nuclear Grade Actuator Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Nuclear Grade Actuator Major Market Trends
Table 13. World Nuclear Grade Actuator Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Nuclear Grade Actuator Consumption by Region (2021-2026) & (K Units)
Table 15. World Nuclear Grade Actuator Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Nuclear Grade Actuator Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Nuclear Grade Actuator Producers in 2025
Table 18. World Nuclear Grade Actuator Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key Nuclear Grade Actuator Producers in 2025
Table 20. World Nuclear Grade Actuator Average Price by Manufacturer (2021-2026) &

+357 96 030922
info@marketpublishers.com

(US$/Unit)
Table 21. Global Nuclear Grade Actuator Company Evaluation Quadrant
Table 22. World Nuclear Grade Actuator Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Nuclear Grade Actuator Production Site of Key Manufacturer
Table 24. Nuclear Grade Actuator Market: Company Product Type Footprint
Table 25. Nuclear Grade Actuator Market: Company Product Application Footprint
Table 26. Nuclear Grade Actuator Competitive Factors
Table 27. Nuclear Grade Actuator New Entrant and Capacity Expansion Plans
Table 28. Nuclear Grade Actuator Mergers & Acquisitions Activity
Table 29. United States VS China Nuclear Grade Actuator Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Nuclear Grade Actuator Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Nuclear Grade Actuator Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Nuclear Grade Actuator Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Nuclear Grade Actuator Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Nuclear Grade Actuator Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Nuclear Grade Actuator Production Market Share (2021-2026)
Table 37. China Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Nuclear Grade Actuator Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Nuclear Grade Actuator Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Nuclear Grade Actuator Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Nuclear Grade Actuator Production Market Share (2021-2026)
Table 42. Rest of World Based Nuclear Grade Actuator Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Nuclear Grade Actuator Production

+357 96 030922
info@marketpublishers.com

Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Nuclear Grade Actuator Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Nuclear Grade Actuator Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Nuclear Grade Actuator Production Market Share (2021-2026)
Table 47. World Nuclear Grade Actuator Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Nuclear Grade Actuator Production by Type (2021-2026) & (K Units)
Table 49. World Nuclear Grade Actuator Production by Type (2027-2032) & (K Units)
Table 50. World Nuclear Grade Actuator Production Value by Type (2021-2026) & (USD Million)
Table 51. World Nuclear Grade Actuator Production Value by Type (2027-2032) & (USD Million)
Table 52. World Nuclear Grade Actuator Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Nuclear Grade Actuator Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Nuclear Grade Actuator Production Value by Safety Class, (USD Million), 2021 & 2025 & 2032
Table 55. World Nuclear Grade Actuator Production by Safety Class (2021-2026) & (K Units)
Table 56. World Nuclear Grade Actuator Production by Safety Class (2027-2032) & (K Units)
Table 57. World Nuclear Grade Actuator Production Value by Safety Class (2021-2026) & (USD Million)
Table 58. World Nuclear Grade Actuator Production Value by Safety Class (2027-2032) & (USD Million)
Table 59. World Nuclear Grade Actuator Average Price by Safety Class (2021-2026) & (US$/Unit)
Table 60. World Nuclear Grade Actuator Average Price by Safety Class (2027-2032) & (US$/Unit)
Table 61. World Nuclear Grade Actuator Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 62. World Nuclear Grade Actuator Production by Application (2021-2026) & (K Units)
Table 63. World Nuclear Grade Actuator Production by Application (2027-2032) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 64. World Nuclear Grade Actuator Production Value by Application (2021-2026) & (USD Million)
Table 65. World Nuclear Grade Actuator Production Value by Application (2027-2032) & (USD Million)
Table 66. World Nuclear Grade Actuator Average Price by Application (2021-2026) & (US$/Unit)
Table 67. World Nuclear Grade Actuator Average Price by Application (2027-2032) & (US$/Unit)
Table 68. Flowserve Corporation Basic Information, Manufacturing Base and Competitors
Table 69. Flowserve Corporation Major Business
Table 70. Flowserve Corporation Nuclear Grade Actuator Product and Services
Table 71. Flowserve Corporation Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. Flowserve Corporation Recent Developments/Updates
Table 73. Flowserve Corporation Competitive Strengths & Weaknesses
Table 74. Baker Hughes Company Basic Information, Manufacturing Base and Competitors
Table 75. Baker Hughes Company Major Business
Table 76. Baker Hughes Company Nuclear Grade Actuator Product and Services
Table 77. Baker Hughes Company Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. Baker Hughes Company Recent Developments/Updates
Table 79. Baker Hughes Company Competitive Strengths & Weaknesses
Table 80. Parker Hannifin Corporation Basic Information, Manufacturing Base and Competitors
Table 81. Parker Hannifin Corporation Major Business
Table 82. Parker Hannifin Corporation Nuclear Grade Actuator Product and Services
Table 83. Parker Hannifin Corporation Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. Parker Hannifin Corporation Recent Developments/Updates
Table 85. Parker Hannifin Corporation Competitive Strengths & Weaknesses
Table 86. Framatome Basic Information, Manufacturing Base and Competitors
Table 87. Framatome Major Business
Table 88. Framatome Nuclear Grade Actuator Product and Services
Table 89. Framatome Nuclear Grade Actuator Production (K Units), Price (US$/Unit),

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Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Framatome Recent Developments/Updates
Table 91. Framatome Competitive Strengths & Weaknesses
Table 92. Mitsubishi Heavy Industries Basic Information, Manufacturing Base and Competitors
Table 93. Mitsubishi Heavy Industries Major Business
Table 94. Mitsubishi Heavy Industries Nuclear Grade Actuator Product and Services
Table 95. Mitsubishi Heavy Industries Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Mitsubishi Heavy Industries Recent Developments/Updates
Table 97. Mitsubishi Heavy Industries Competitive Strengths & Weaknesses
Table 98. Hitachi Basic Information, Manufacturing Base and Competitors
Table 99. Hitachi Major Business
Table 100. Hitachi Nuclear Grade Actuator Product and Services
Table 101. Hitachi Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Hitachi Recent Developments/Updates
Table 103. Hitachi Competitive Strengths & Weaknesses
Table 104. Toshiba Energy Systems & Solutions Basic Information, Manufacturing Base and Competitors
Table 105. Toshiba Energy Systems & Solutions Major Business
Table 106. Toshiba Energy Systems & Solutions Nuclear Grade Actuator Product and Services
Table 107. Toshiba Energy Systems & Solutions Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Toshiba Energy Systems & Solutions Recent Developments/Updates
Table 109. Toshiba Energy Systems & Solutions Competitive Strengths & Weaknesses
Table 110. Yangzhou Hengchun Basic Information, Manufacturing Base and Competitors
Table 111. Yangzhou Hengchun Major Business
Table 112. Yangzhou Hengchun Nuclear Grade Actuator Product and Services
Table 113. Yangzhou Hengchun Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Yangzhou Hengchun Recent Developments/Updates
Table 115. Yangzhou Hengchun Competitive Strengths & Weaknesses
Table 116. Chongqing Chuanyi Basic Information, Manufacturing Base and Competitors

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Table 117. Chongqing Chuanyi Major Business
Table 118. Chongqing Chuanyi Nuclear Grade Actuator Product and Services
Table 119. Chongqing Chuanyi Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 120. Chongqing Chuanyi Recent Developments/Updates
Table 121. Chongqing Chuanyi Competitive Strengths & Weaknesses
Table 122. Trillium Flow Technologies Basic Information, Manufacturing Base and Competitors
Table 123. Trillium Flow Technologies Major Business
Table 124. Trillium Flow Technologies Nuclear Grade Actuator Product and Services
Table 125. Trillium Flow Technologies Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 126. Trillium Flow Technologies Recent Developments/Updates
Table 127. Trillium Flow Technologies Competitive Strengths & Weaknesses
Table 128. Bernard Controls Basic Information, Manufacturing Base and Competitors
Table 129. Bernard Controls Major Business
Table 130. Bernard Controls Nuclear Grade Actuator Product and Services
Table 131. Bernard Controls Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 132. Bernard Controls Recent Developments/Updates
Table 133. Bernard Controls Competitive Strengths & Weaknesses
Table 134. Rotork Basic Information, Manufacturing Base and Competitors
Table 135. Rotork Major Business
Table 136. Rotork Nuclear Grade Actuator Product and Services
Table 137. Rotork Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 138. Rotork Recent Developments/Updates
Table 139. Rotork Competitive Strengths & Weaknesses
Table 140. CNNC Basic Information, Manufacturing Base and Competitors
Table 141. CNNC Major Business
Table 142. CNNC Nuclear Grade Actuator Product and Services
Table 143. CNNC Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 144. CNNC Recent Developments/Updates
Table 145. CNNC Competitive Strengths & Weaknesses
Table 146. SMC Corporation Basic Information, Manufacturing Base and Competitors

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Table 147. SMC Corporation Major Business
Table 148. SMC Corporation Nuclear Grade Actuator Product and Services
Table 149. SMC Corporation Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 150. SMC Corporation Recent Developments/Updates
Table 151. SMC Corporation Competitive Strengths & Weaknesses
Table 152. KSB Basic Information, Manufacturing Base and Competitors
Table 153. KSB Major Business
Table 154. KSB Nuclear Grade Actuator Product and Services
Table 155. KSB Nuclear Grade Actuator Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 156. KSB Recent Developments/Updates
Table 157. KSB Competitive Strengths & Weaknesses
Table 158. Global Key Players of Nuclear Grade Actuator Upstream (Raw Materials)
Table 159. Global Nuclear Grade Actuator Typical Customers
Table 160. Nuclear Grade Actuator Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Nuclear Grade Actuator Picture
Figure 2. World Nuclear Grade Actuator Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Nuclear Grade Actuator Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Nuclear Grade Actuator Production (2021-2032) & (K Units)
Figure 5. World Nuclear Grade Actuator Average Price (2021-2032) & (US$/Unit)
Figure 6. World Nuclear Grade Actuator Production Value Market Share by Region (2021-2032)
Figure 7. World Nuclear Grade Actuator Production Market Share by Region (2021-2032)
Figure 8. North America Nuclear Grade Actuator Production (2021-2032) & (K Units)
Figure 9. Europe Nuclear Grade Actuator Production (2021-2032) & (K Units)
Figure 10. China Nuclear Grade Actuator Production (2021-2032) & (K Units)
Figure 11. Japan Nuclear Grade Actuator Production (2021-2032) & (K Units)
Figure 12. Nuclear Grade Actuator Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 15. World Nuclear Grade Actuator Consumption Market Share by Region (2021-2032)
Figure 16. United States Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 17. China Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 18. Europe Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 19. Japan Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 20. South Korea Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 21. ASEAN Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 22. India Nuclear Grade Actuator Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of Nuclear Grade Actuator by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Nuclear Grade Actuator Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Nuclear Grade Actuator Markets in 2025
Figure 26. United States VS China: Nuclear Grade Actuator Production Value Market Share Comparison (2021 & 2025 & 2032)

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Figure 27. United States VS China: Nuclear Grade Actuator Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Nuclear Grade Actuator Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Nuclear Grade Actuator Production Market Share 2025
Figure 30. China Based Manufacturers Nuclear Grade Actuator Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Nuclear Grade Actuator Production Market Share 2025
Figure 32. World Nuclear Grade Actuator Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Nuclear Grade Actuator Production Value Market Share by Type in 2025
Figure 34. Electro-Hydraulic Actuator
Figure 35. Hydraulic Actuator
Figure 36. Servo Hydraulic Actuator
Figure 37. World Nuclear Grade Actuator Production Market Share by Type (2021-2032)
Figure 38. World Nuclear Grade Actuator Production Value Market Share by Type (2021-2032)
Figure 39. World Nuclear Grade Actuator Average Price by Type (2021-2032) & (US$/Unit)
Figure 40. World Nuclear Grade Actuator Production Value by Safety Class, (USD Million), 2021 & 2025 & 2032
Figure 41. World Nuclear Grade Actuator Production Value Market Share by Safety Class in 2025
Figure 42. Safety Class 1
Figure 43. Safety Class 2
Figure 44. Safety Class 3
Figure 45. Non-safety Related
Figure 46. World Nuclear Grade Actuator Production Market Share by Safety Class (2021-2032)
Figure 47. World Nuclear Grade Actuator Production Value Market Share by Safety Class (2021-2032)
Figure 48. World Nuclear Grade Actuator Average Price by Safety Class (2021-2032) & (US$/Unit)
Figure 49. World Nuclear Grade Actuator Production Value by Application, (USD Million), 2021 & 2025 & 2032

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Figure 50. World Nuclear Grade Actuator Production Value Market Share by Application in 2025
Figure 51. Nuclear Island Applications
Figure 52. Balance of Plant (BOP)
Figure 53. Nuclear Fuel Cycle Facilities
Figure 54. Research Reactors
Figure 55. World Nuclear Grade Actuator Production Market Share by Application (2021-2032)
Figure 56. World Nuclear Grade Actuator Production Value Market Share by Application (2021-2032)
Figure 57. World Nuclear Grade Actuator Average Price by Application (2021-2032) & (US$/Unit)
Figure 58. Nuclear Grade Actuator Industry Chain
Figure 59. Nuclear Grade Actuator Procurement Model
Figure 60. Nuclear Grade Actuator Sales Model
Figure 61. Nuclear Grade Actuator Sales Channels, Direct Sales, and Distribution
Figure 62. Methodology
Figure 63. Research Process and Data Source

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